

# John Renwick

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## About

A dedicated civil engineering student with academic training in structural design, fluid mechanics, and transportation systems. Proficient in MATLAB and AutoCAD. Committed to applying innovative engineering techniques to improve infrastructure and sustainability.

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## Project Experience

### Senior Design Project - Flood Mitigation System Design

*January 2025 – May 2025*

- Designed a flood mitigation system for a residential community using hydrologic modeling software
- Analyzed stormwater flow data to optimize drainage system performance
- Collaborated with a team of four students to develop cost-effective solutions

### Capstone Project - Sustainable Bridge Design

*September 2024 – December 2024*

- Conducted structural analysis for a pedestrian bridge using finite element modeling software
- Presented design proposals to faculty and industry professionals

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## Education

### University of Houston, Houston, TX

Bachelor of Science in Civil Engineering – December 2025

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## Key Skills

Structural analysis:  90%

AutoCAD:  85%

Transportation modeling:  80%

MATLAB:  85%

Fluid mechanics:  80%